

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	779	375/317	US-PGPUB; USPAT	OR	ON	2007/06/12 14:10
S2	8	S1 and current adj (mismatch offset)	US-PGPUB; USPAT	OR	ON	2007/05/17 13:52
S3	38	S1 and (data bit) near slic\$3	US-PGPUB; USPAT	OR	ON	2007/05/21 15:31
S4	81	S1 and (data bit) with slic\$3	US-PGPUB; USPAT	OR	ON	2007/05/17 14:16
S5	4	S1 and (data bit) with slic\$3 and (current with \$3match\$3)	US-PGPUB; USPAT	OR	ON	2007/05/17 14:22
S6	1152	(data bit) with slic\$3 and (current with \$3match\$3)	US-PGPUB; USPAT	OR	ON	2007/05/17 14:23
S7	52	(data bit) with slic\$3 same (current with \$3match\$3)	US-PGPUB; USPAT	OR	ON	2007/05/17 17:06
S8	139	(data bit) with slic\$3 same (current with (\$3match\$3 pump source sink))	US-PGPUB; USPAT	OR	ON	2007/05/17 17:07
S9	3	(data bit) with slic\$3 same (current with (pump source sink)) with \$3match\$3	US-PGPUB; USPAT	OR	ON	2007/06/08 16:22
S10	6	(bit data) near slic\$3 with current same calibrat\$4	US-PGPUB; USPAT	OR	ON	2007/05/21 10:51
S11	13	(bit data) adj slic\$3 same current same calibrat\$4	US-PGPUB; USPAT	OR	ON	2007/05/21 10:57
S12	85	(bit data) adj slic\$3 same calibrat\$4	US-PGPUB; USPAT	OR	ON	2007/05/21 10:53
S13	12	(bit data) adj slic\$3 same calibrat\$4 with current	US-PGPUB; USPAT	OR	ON	2007/05/21 10:53
S14	72	S12 not (S11 or S13)	US-PGPUB; USPAT	OR	ON	2007/05/21 10:55
S15	4	(data bit) adj slicer with calibrat\$4	US-PGPUB; USPAT	OR	ON	2007/05/21 10:57
S16	848	(data bit) adj slicer	US-PGPUB; USPAT	OR	ON	2007/05/21 13:13
S17	5603	(bit data) adj slic\$3	US-PGPUB; USPAT	OR	ON	2007/05/21 10:58
S18	22	(bit data) adj slic\$3 same (current adj source)	US-PGPUB; USPAT	OR	ON	2007/05/21 11:09
S19	3	(bit data) adj slic\$3 same (current with mismatch)	US-PGPUB; USPAT	OR	ON	2007/05/21 11:12
S20	565	S16 and current	US-PGPUB; USPAT	OR	ON	2007/05/21 11:13
S21	63	S16 and (current with \$3match\$3)	US-PGPUB; USPAT	OR	ON	2007/05/21 11:13
S22	249	(data bit) adj slic\$3 and (pulse period duty adj cycle) near2 (exten\$4 modif\$7)	US-PGPUB; USPAT	OR	ON	2007/05/21 13:24

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S23	8	(data bit) adj slic\$3 same (pulse period duty adj cycle) near2 (exten\$4 modif\$7)	US-PGPUB; USPAT	OR	ON	2007/05/21 13:27
S24	3	(data bit) adj slicer and current adj mismatch	US-PGPUB; USPAT	OR	ON	2007/05/21 13:28
S25	0	(data bit) adj slicer and (current with source with match)	US-PGPUB; USPAT	OR	ON	2007/05/21 13:28
S26	3	(data bit) adj slicer and (current with source with \$3match\$3)	US-PGPUB; USPAT	OR	ON	2007/05/21 13:28
S27	11	(data bit) adj slic\$3 and (current with source with \$3match\$3)	US-PGPUB; USPAT	OR	ON	2007/05/21 13:38
S28	0	(data bit) adj slic\$3 and change adj pump	US-PGPUB; USPAT	OR	ON	2007/05/21 13:39
S29	77	(data bit) adj slic\$3 and charge adj pump	US-PGPUB; USPAT	OR	ON	2007/05/21 13:39
S30	45	(data bit) adj slic\$3 and charge adj pump and \$3match\$3	US-PGPUB; USPAT	OR	ON	2007/05/21 13:39
S31	2	(data bit) adj slic\$3 and charge adj pump with \$3match\$3	US-PGPUB; USPAT	OR	ON	2007/05/21 13:39
S32	12	(data bit) adj slic\$3 and charge adj pump same \$3match\$3	US-PGPUB; USPAT	OR	ON	2007/05/21 13:39
S33	779	375/317	US-PGPUB; USPAT	OR	ON	2007/05/21 15:31
S34	22	S33 and (data bit) adj slic\$3 and current	US-PGPUB; USPAT	OR	ON	2007/05/21 16:09
S35	3	S33 and (data bit) adj (slic\$3 splic\$3) and current with \$3match\$3	US-PGPUB; USPAT	OR	ON	2007/05/21 16:10
S36	779	375/317	US-PGPUB; USPAT	OR	ON	2007/05/21 17:12
S37	39	S36 and ((training adj sequence) (calibration adj signal))	US-PGPUB; USPAT	OR	ON	2007/06/12 15:31
S38	5	S36 and (comparator (bit data) adj slic\$3) same ((training adj sequence) (calibration adj signal))	US-PGPUB; USPAT	OR	ON	2007/05/21 17:17
S39	1	S36 and (comparator (bit data) adj slic\$3) same (threshold with calibration)	US-PGPUB; USPAT	OR	ON	2007/05/21 17:17
S40	4	S36 and (comparator (bit data) adj slic\$3) and (threshold with calibration)	US-PGPUB; USPAT	OR	ON	2007/05/21 17:18
S41	5603	((bit data) adj slic\$3)	US-PGPUB; USPAT	OR	ON	2007/05/21 17:57
S42	30	S36 and S41	US-PGPUB; USPAT	OR	ON	2007/05/21 17:57
S43	25	S42 and comparator	US-PGPUB; USPAT	OR	ON	2007/05/21 17:57
S44	3	S43 and ((charge current) adj pump)	US-PGPUB; USPAT	OR	ON	2007/05/21 18:11

## EAST Search History

S45	5	S43 and (duty adj cycle)	US-PGPUB; USPAT	OR	ON	2007/05/21 18:11
S46	2769	(comparator xor "exclusive or") with (duty adj cycle)	US-PGPUB; USPAT	OR	ON	2007/05/22 10:27
S47	2	slicer with (comparator xor "exclusive or") with (duty adj cycle)	US-PGPUB; USPAT	OR	ON	2007/05/22 10:35
S48	35	slicer with (duty adj cycle)	US-PGPUB; USPAT	OR	ON	2007/05/22 13:18
S49	246	charge adj pump with (duty adj cycle)	US-PGPUB; USPAT	OR	ON	2007/05/22 13:18
S50	24	comparator same (charge adj pump) with (duty adj cycle)	US-PGPUB; USPAT	OR	ON	2007/05/22 13:18
S51	4	("7136441" "6631103" "20040161070" "20030165207").pn.	US-PGPUB; USPAT	OR	ON	2007/05/22 15:57
S52	7	(data bit) adj slicer same (duty) same (pulse with width)	US-PGPUB; USPAT	OR	ON	2007/05/23 11:53
S53	24	(data bit) adj slicer same (duty adj (cycle factor) pulse adj (width duration length))	US-PGPUB; USPAT	OR	ON	2007/05/23 11:55
S54	17	S53 not S52	US-PGPUB; USPAT	OR	ON	2007/05/23 14:45
S55	25	clock with duty with calibration	US-PGPUB; USPAT	OR	ON	2007/05/23 17:08
S56	5001	(charge adj pump) and (pulse duty) near (width length duration cycle)	US-PGPUB; USPAT	OR	ON	2007/05/23 17:12
S57	1614	(charge adj pump) same (pulse duty) near (width length duration cycle)	US-PGPUB; USPAT	OR	ON	2007/05/23 17:12
S58	1154	(charge adj pump) same (pulse) near (width length duration)	US-PGPUB; USPAT	OR	ON	2007/05/23 17:13
S59	6	(charge adj pump) same (pulse) near (width length duration) and slicer	US-PGPUB; USPAT	OR	ON	2007/05/24 16:31
S60	23	(charge adj pump) same (pulse) near (width length duration) and slic\$3	US-PGPUB; USPAT	OR	ON	2007/05/24 18:12
S61	26	(charge adj pump) same slicer	US-PGPUB; USPAT	OR	ON	2007/05/24 18:12
S62	102743	(charge adj pump) same current mismatch	US-PGPUB; USPAT	OR	ON	2007/05/24 17:37
S63	62	(charge adj pump) same (current adj mismatch)	US-PGPUB; USPAT	OR	ON	2007/05/24 17:38
S64	23	(charge adj pump) same (current adj mismatch) and (threshold slic\$3)	US-PGPUB; USPAT	OR	ON	2007/05/24 18:12
S65	10	slic\$3 same (current with (pump source sink)) with \$3match\$3	US-PGPUB; USPAT	OR	ON	2007/06/08 16:23
S66	0	slic\$3 same (pulse adj width adj modulat\$4) same (charge adj pump)	US-PGPUB; USPAT	OR	ON	2007/06/11 11:08
S67	9	slic\$3 same (pulse adj width adj modulat\$4) same threshold	US-PGPUB; USPAT	OR	ON	2007/06/11 11:50

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S68	0	slic\$3 same (pulse adj width adj modulat\$4) same current with mismatch	US-PGPUB; USPAT	OR	ON	2007/06/11 11:14
S69	7	(pulse adj width adj modulat\$4) same current with mismatch	US-PGPUB; USPAT	OR	ON	2007/06/11 11:14
S70	199	slic\$3 same (pulse adj width adj modulat\$4)	US-PGPUB; USPAT	OR	ON	2007/06/11 11:50
S71	16	slicer same (pulse adj width adj modulat\$4)	US-PGPUB; USPAT	OR	ON	2007/06/11 12:24
S72	7	slicer same (current near2 source) with \$3match\$3	US-PGPUB; USPAT	OR	ON	2007/06/11 12:28
S73	5	slicer with (current near2 source) same current with \$3match\$3	US-PGPUB; USPAT	OR	ON	2007/06/11 12:28
S74	6	(data adj slicer) and comparator and waveform adj generator	US-PGPUB; USPAT	OR	ON	2007/06/11 16:23
S75	63	(data adj slicer) and comparator and (waveform adj generator (clock)) and (duty adj cycle)	US-PGPUB; USPAT	OR	ON	2007/06/11 16:24
S76	29	(data adj slicer) and comparator and (waveform adj generator (clock)) and (duty adj cycle) and ((charge adj pump) (current adj source)) and feedback	US-PGPUB; USPAT	OR	ON	2007/06/11 16:25
S77	34	(data adj slicer) and comparator and (waveform adj generator (clock)) and (duty adj cycle) and ((charge adj pump) (current adj source)) and (feedback LPF (low adj pass adj filter))	US-PGPUB; USPAT	OR	ON	2007/06/11 16:26
S78	9	(data adj slicer) and comparator and (waveform adj generator (clock)) and (duty adj cycle) and ((charge adj pump) (current adj source)) and (feedback LPF (low adj pass adj filter)) and integrator	US-PGPUB; USPAT	OR	ON	2007/06/12 11:15
S79	1	(data adj slicer) and feedback same (integrator and (ADC (analog adj digital adj converter)))	US-PGPUB; USPAT	OR	ON	2007/06/12 11:16
S80	14	slicer and feedback same (integrator and (ADC (analog adj digital adj converter)))	US-PGPUB; USPAT	OR	ON	2007/06/12 11:34
S81	16	slicer and feedback same (integrator LPF low adj pass adj filter) same (ADC (analog adj digital adj converter))	US-PGPUB; USPAT	OR	ON	2007/06/12 11:35
S82	10	S81 not S80	US-PGPUB; USPAT	OR	ON	2007/06/12 11:35
S83	790	375/317	US-PGPUB; USPAT	OR	ON	2007/06/12 14:23
S84	0	S83 and slicer same (training adj sequence) same duty	US-PGPUB; USPAT	OR	ON	2007/06/12 14:23
S85	1	S83 and slicer same (training adj sequence)	US-PGPUB; USPAT	OR	ON	2007/06/12 14:24



## EAST Search History

S86	500844	S83 and (training adj sequence calibration) threshold	US-PGPUB; USPAT	OR	ON	2007/06/12 14:25
S87	17	S83 and (training adj sequence calibration) same threshold	US-PGPUB; USPAT	OR	ON	2007/06/12 14:35
S88	0	slicer with threshold with (correction compensation calibration) with drift	US-PGPUB; USPAT	OR	ON	2007/06/12 14:35
S89	0	slicer same threshold with (correction compensation calibration) with drift	US-PGPUB; USPAT	OR	ON	2007/06/12 14:36
S90	6	slicer same threshold with (correction compensation calibration) and drift	US-PGPUB; USPAT	OR	ON	2007/06/12 14:51
S91	41	slicer same threshold with (correction compensation calibration)	US-PGPUB; USPAT	OR	ON	2007/06/12 14:52
S92	26	slicer with threshold with (correction compensation calibration)	US-PGPUB; USPAT	OR	ON	2007/06/12 15:12
S93	1	center with slicer with threshold same calibrat\$3	US-PGPUB; USPAT	OR	ON	2007/06/12 15:13
S94	12	center with slicer with threshold	US-PGPUB; USPAT	OR	ON	2007/06/12 15:13
S95	1	center with slicer with threshold same clock	US-PGPUB; USPAT	OR	ON	2007/06/12 15:13
S96	1	slicer near (waveform adj generator)	US-PGPUB; USPAT	OR	ON	2007/06/12 15:32
S97	2	slicer with (waveform adj generator)	US-PGPUB; USPAT	OR	ON	2007/06/12 15:34
S98	311	generat\$3 near slicer	US-PGPUB; USPAT	OR	ON	2007/06/12 15:42
S99	3120	waveform adj generat\$3 and calibrat\$3	US-PGPUB; USPAT	OR	ON	2007/06/12 15:36
S100	3	S98 and S99	US-PGPUB; USPAT	OR	ON	2007/06/12 16:57
S101	1530	generat\$3 with slicer	US-PGPUB; USPAT	OR	ON	2007/06/12 15:42
S102	13	S99 and S101	US-PGPUB; USPAT	OR	ON	2007/06/12 15:48
S103	0	(wave adj generator) with threshold same slicer	US-PGPUB; USPAT	OR	ON	2007/06/12 16:07
S104	83	(wave adj generator) and threshold same slicer	US-PGPUB; USPAT	OR	ON	2007/06/12 16:07
S105	81	(wave adj generator) and threshold with slicer	US-PGPUB; USPAT	OR	ON	2007/06/12 16:08
S106	0	(wave adj generator) same threshold with slicer	US-PGPUB; USPAT	OR	ON	2007/06/12 16:08
S107	1	(wave adj generator) same threshold same slicer	US-PGPUB; USPAT	OR	ON	2007/06/12 16:11
S108	125	slicer near threshold	US-PGPUB; USPAT	OR	ON	2007/06/12 16:47

## EAST Search History

S109	12579	wave near generator	US-PGPUB; USPAT	OR	ON	2007/06/12 16:47
S110	0	S108 and S109	US-PGPUB; USPAT	OR	ON	2007/06/12 16:47
S111	654	slicer with threshold	US-PGPUB; USPAT	OR	ON	2007/06/12 16:47
S112	81	S109 and S111	US-PGPUB; USPAT	OR	ON	2007/06/12 16:48
S113	76	S112 and calibrat\$	US-PGPUB; USPAT	OR	ON	2007/06/12 16:48
S114	9	(pulse adj width adj modulator) with control and slicer	US-PGPUB; USPAT	OR	ON	2007/06/12 17:03
S115	8108	slicer	US-PGPUB; USPAT	OR	ON	2007/06/12 17:03
S116	4842	calibration near mode	US-PGPUB; USPAT	OR	ON	2007/06/12 17:04
S117	654	slicer with threshold	US-PGPUB; USPAT	OR	ON	2007/06/12 17:06
S118	26	S116 and S117	US-PGPUB; USPAT	OR	ON	2007/06/12 17:04
S119	1	(data bit) adj slicer same threshold with calibrat\$4	US-PGPUB; USPAT	OR	ON	2007/06/12 17:08
S120	1	(data bit) adj slicer same threshold same calibrat\$4 with signal	US-PGPUB; USPAT	OR	ON	2007/06/12 17:10
S121	6	slicer same threshold same calibrat\$4 with signal	US-PGPUB; USPAT	OR	ON	2007/06/12 17:16
S122	184	369/59.17.ccls.	US-PGPUB; USPAT	OR	ON	2007/06/12 17:19
S123	12	369/59.17.ccls. and calibrat\$	US-PGPUB; USPAT	OR	ON	2007/06/12 17:34
S124	5	("6631103" "5710750" "5469091" "5592456" "6188738").pn.	US-PGPUB; USPAT	OR	ON	2007/06/13 13:27
S125	131	slice\$2 near level with correct with signal	US-PGPUB; USPAT	OR	ON	2007/06/13 10:01
S126	0	slice\$2 near level with correct with wave\$ with generator	US-PGPUB; USPAT	OR	ON	2007/06/13 09:21
S127	0	slice\$2 near level with correct with run near (clock in)	US-PGPUB; USPAT	OR	ON	2007/06/13 10:01
S128	3	slice\$2 near level with correct with threshold	US-PGPUB; USPAT	OR	ON	2007/06/13 09:24
S129	2	slice\$2 near level with correct\$3 same wave\$ with generator	US-PGPUB; USPAT	OR	ON	2007/06/13 09:24
S130	0	slice\$2 near level with correct with (run near clock "run-in" "run in" )	US-PGPUB; USPAT	OR	ON	2007/06/13 10:02
S131	1	slice\$2 near level with correct same (run near clock "run-in" "run in" )	US-PGPUB; USPAT	OR	ON	2007/06/13 15:33

## EAST Search History

S132	22	slic\$3 with (level threshold) with (calibration training) near (signal sequence)	US-PGPUB; USPAT	OR	ON	2007/06/13 11:09
S133	4	clock with duty adj cycle with slicer	US-PGPUB; USPAT	OR	ON	2007/06/13 11:09
S134	5	slicer same calibration near signal	US-PGPUB; USPAT	OR	ON	2007/06/13 15:37
S135	5	slicer same calibrat\$3 near signal	US-PGPUB; USPAT	OR	ON	2007/06/13 15:37
S136	9	slicer with threshold same calibrat\$3	US-PGPUB; USPAT	OR	ON	2007/06/13 15:38